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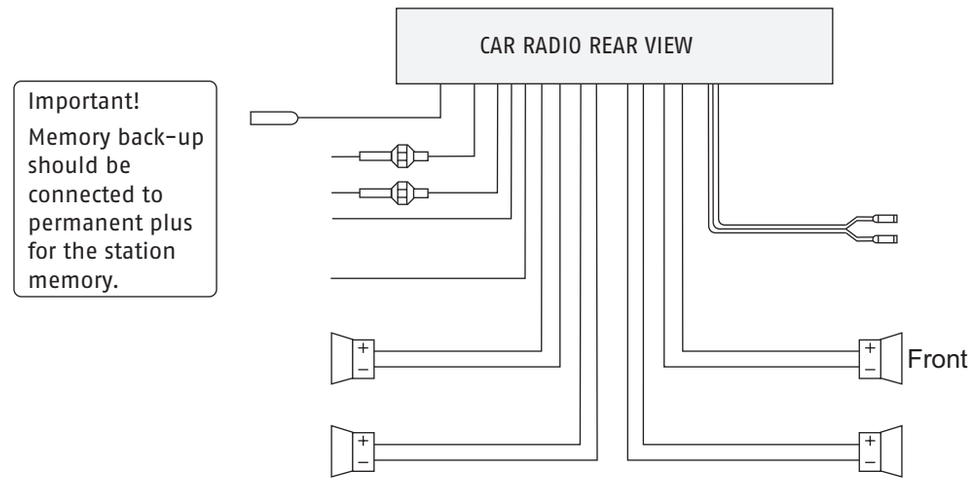
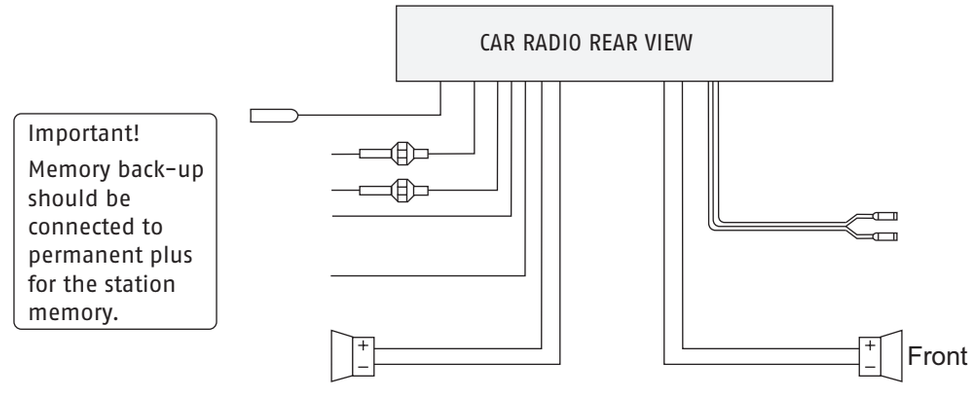
CONNECTION OPTIONS

4-SPEAKER (QUADRO) SYSTEM



2-SPEAKER (DUAL) SYSTEM



An external amplifier can be connected to the cinch cables. Please refer to your instructions for the external amplifier.

Installation

Installation instructions

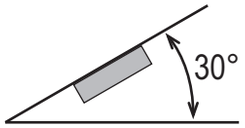
• Insert the radio in the ISO slot for car radios in your vehicle, or select another location for installation where it will not affect the driver's ability to drive.• Connect the cable shortly before finally installing the device and check the station memory function.

• If changes have to be made to the vehicle, consult a vehicle dealer or specialist workshop. Incorrect installation can lead to malfunctions affecting the complete electrical system of the vehicle.

• If necessary use vehicle-specific ISO adapters for installing the car radio. These adapters can be obtained from specialist workshops, dealers, or specialist departments of car equipment warehouses.

• Install the unit in such a manner that no injury can be caused during heavy braking or other driving situations.

• Note that the functioning of the car radio may be impaired if it is installed at an angle of more than 30% from a level position.



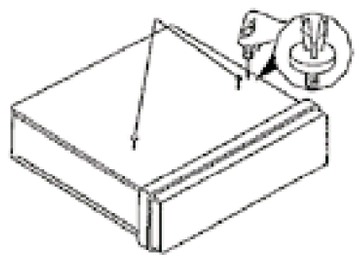
• Ensure that the car radio is not exposed to excessive temperatures (e.g. from direct sunlight or air from the in-car heating system), dust, dirt, or excessive vibration.

Preparation

• Before installation always remove the two transportation safety screws in the upper part radio casing (recognisable by their red flags)!

• Now remove the mounting frame from the casing of the car radio.

Remove screws before installing.



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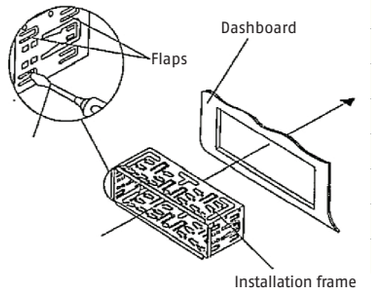
ASSEMBLY

The car radio can be fitted in any standard ISO slot for car radios. If you vehicle has no ISO slot, please consult a specialist workshop, dealer, or a specialist department of a car equipment warehouse.

• Insert the mounting frame in the ISO installation slot.

• Bend the flaps in the mounting frame with a screwdriver so that it is fixed firmly in place in the installation slot (see diagram).



• Now connect the car radio's ISO block to the vehicle's two ISO plugs.

• Connect the vehicle's antenna cable to the radiobox's antenna plugs.

• Push the car radio carefully into the slot until it fits securely.

While pushing the radio, take care to ensure that the cables are not damaged during the process.

• Press the RESET BUTTON (21) using the tip of a pen or another sharp object.

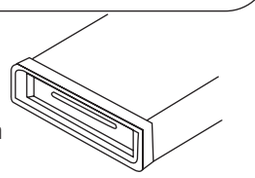
• Insert the control panel as described in the next section.

Please use the car radio's ISO block for installation. These adapters can be obtained from specialist workshops, dealers, or specialist departments of car equipment warehouses.

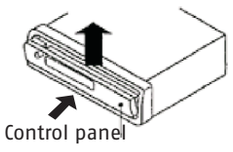
If the ISO block is separated from the radio the warranty will become NULL AND VOID!

INSERT THE CONTROL PANEL

• First insert the left side of the control panel in a horizontal position in the frame of the slot and then the right side.



• When both sides are resting within the frame, press the control panel into the frame and ensure that it is securely in place.



GENERAL

Operating voltage	DC12V, negative earth connection
Fitting dimensions	178 x 165 x 60 cm (W x D x H)
Output power	4 x 20 watts RMS
Fuses	0.5 amp (red); 15 amp (pink)

RADIO

FM RADIO

Frequency range	87.5 – 108 MHz
IF	10.7 MHz
Sensitivity	4 µV
	(Signal-to-noise ratio = 30 dB)
Stereo separation	> 25 dBu

AM RADIO		LW RADIO	
Frequency range	522 – 1620 kHz	Frequency range	144 – 288 kHz
IF	450 KHz	IF	450 KHz
(Signal-to-noise ratio = 20 dB)		(Signal-to-noise ratio = 30 dB)	
Stereo separation	36 dBu	Stereo separation	38 dBu

CD/MP3 PLAYER

Frequency range	40 Hz – 18kHz
MPEG rate	64 – 320 k
MP3 Playback	ISO 9660/Joliet format

LASER KLASSE 1
CLASS 1 LASER PRODUCT
APPAREIL LASER DE CATEGORIE 1

SUPPORTED CD FORMATS

Audio CDs, CD-Rs and CD-RWs can all be played.

Please note:

These days there are many non-standard CD recording and copy protection procedures in use and a wide range of CD-R and CD-RW discs on the market. Therefore in individual cases there may be read errors or delays. This does not mean the unit is faulty.

This device has been approved in accordance with Directive 72/245/EEC (last amended by Directive 95/54/EC) on "Electromagnetic compatibility" (so-called e1 approval).

C-Tick compliant

e 1
022451

Subject to technical changes.

Troubleshooting

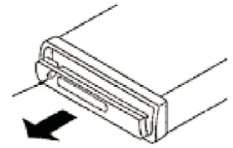
PROBLEM	POSSIBLE CAUSE	SUGGESTIONS
The unit cannot be switched on.	The ignition is not switched on.	Activate the ignition by turning the key.
	One of the fuses is faulty!	Replace the fuses.
The CD cannot be loaded or taken out.	There is already a CD in the unit	Remove the CD from the unit.
	The CD has been put in the wrong way up.	Place the CD with the label facing upwards.
	The disk is dirty defective.	Clean the CD or place another CD in the unit.
	The temperature in the car is too high.	Wait until the ambient temperature has stabilised.
	Condensation!	Switch off the car radio and then try again.
No sound!	The volume is set to minimum.	Adjust the volume to the required level.
	The cables are not connected properly.	Check the cable connections.
Function buttons do not work!	The built-in microcomputer cannot function owing to interference.	Press the RESET button (21).
The CD jumps	The control panel is not inserted properly.	Check that the control panel is inserted correctly.
	The installation angle exceeds 30°.	Correct the installation angle!
	The CD is very dirty or faulty.	Clean the CD or place another CD in the player.
Radio and/or the automatic station memory do not not correctly work.	Self-burned CDs do not play properly.	Check the self-burned CD in in another player.
	The antenna cable is connected.	Check the antenna cable for correct position.
Station storage function does not work.	The transmission signals are too weak.	Tune in the stations manually.
	The steady plus cable is not correctly connected.	Check the cable connections. For this, refer to the "INSTALLATION" chapter.

Removing the control panel

• Press the OPEN button (1).

Tip it gently forwards and then pull out first the left and then the right side.

Open



For protection, always keep the control panel in its case.

When the panel is not attached, the LED anti-theft protection light will flash on the unit.

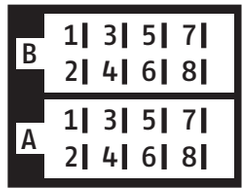
Problems due to incorrect cable connections

In some vehicle models, the standard arrangement of the cables [4] and [7] in the ISO block A (see below, "ARRANGEMENT OF THE ISO BLOCK") is exchanged at the factory.

If this is the case in your vehicle, certain functions may be impaired: stations may not be stored properly, for example.

To solve this, the red cable switched plus and the pink cable (permanent plus) will need to be reversed in the ISO block.

Arrangement of the ISO block



BLOCK B – Speakers	BLOCK A – Electricity supply
1 – back right +	1 –
2 – back right –	2 –
3 – front right +	3 –
4 – front right –	4 – Switched plus (permanent 12 V supply from main electrical system)
5 – front left +	5 – Auto. antenna (also for external amplifiers, etc.)
6 – front left –	6 –
7 – back right +	7 – Alternating plus (alternating 12 V voltage, via ignition)
8 – back right –	8 – Earth/ground

Operation

Basic operation

SWITCHING ON/OFF

• Press the POWER button (11) to switch the car radio on or off.

• Briefly touch the POWER button (11) to dim the level illumination on the display through three levels.

VOLUME

• Turn the volume control (4) to adjust the volume to the level required.

BASS/TREBLE/BALANCE/FADER

• By pressing the SEL button (3) you can display the bass, treble, balance and fader settings and adjust them using the AUDIO (4) control.

LOUDNESS

• Hold down the BAND "LOUDNESS" button (8) to increase the bass level using the "Loudness" function.

DISPLAY

• By pressing the DSP button (12), you can switch from one display setting to another.

MODE:

• By pressing the MODE button (19), you can switch between the radio and CD/MP3 functions.

EQ

• By pressing the EQ button (20) you can switch on the equaliser function and select from CLASSIC, POP M, JAZZ, FLAT or DSP OFF sound effects. If FLAT is set, all equaliser settings are set at zero (0). DSP OFF means that Digital Sound Processing (DSP) is switched on.

RESET

• To return the car radio settings to those set by the manufacturer, press the RESET button (21).

SETTING THE TIME

Your car radio is fitted with an RDS controlled clock. The time is set automatically and will still function even when the radio is switched off. If you are unable to receive an RDS signal, you can adjust the time displayed manually.

• Press the DSP/0 button (12) to display the time.

• Hold down the DSP/0 button (12) for about 2 seconds to display the time. The time displayed will flash on and off.

• Using the 8/< (22) button and the 9/> (6) button, you can now set the minutes and hours respectively.

MP3-player (cont.)

ID3 TAG

This feature refers to a block of information stored on an MP3 CD lying "behind" the actual music information on the MP3. Among other things, it includes the name of the artist, the name of the track, the name of the album, the year it was released, the style of music, and in some cases notes.

The car radio can read this block of information and show it on the display (5). This is more user-friendly than with an audio CD, where only the title (track) numbers are displayed.

When producing your MP3 CDs, please take care to ensure that you can input or modify the ID3 tag for your MP3 CDs yourself using an ID3 tag editor available from specialist providers.

DISPLAYING ID3 TAGS

• Press the DSP button (12) and the applicable entry from the ID3 tag will be shown on the Display (5). Each time the DSP button (12) is pressed, the display title will change as follows:

→ TRACK → ARTIST → NAME OF ALBUM → YEAR OF RELEASE → NOTES

MP3 player

An MP3 CD will start to play automatically as soon as it is inserted in the player. Please refer to "CD PLAYER OPERATION" for details of the button functions.

You can select the tracks and artists directly. The use of this function and other MP3-specific functions will depend to some degree on the MP3 CD itself. Please bear this in mind when producing this type of CD.

TRACK SEARCH (NUMBERS)

• Press the OPEN button (18).

The display (5) will show [MP3T*].

Now enter the number using the number keys. Confirm your selection by pressing the BAND "ENTER" button (8).

ARTIST SEARCH (LETTERS)

• Press the AMS button (18) twice. The display (5) will show [*]. Now enter the number using the number keys. Confirm your selection by pressing the BAND "ENTER" button (8).

• To limit the search you can also add the letters that come after the first letter. To do this, after entering the first letter press the SEL (3) button and enter the next letter. Confirm your selection by pressing the BAND "ENTER" button (8).

TABLE FOR MP3 SEARCHES

Key Action	
AMS (18)	Select setting
BAND (8)	Confirm
1 (16)	A, B, C, 1
2 (16)	D, E, F, 2
3 (16)	G, H, I, 3
4 (16)	J, K, L, 4
5 (16)	M, N, O, 5 / 10 Next track down
6 (16)	P, Q, R, 6 / 10 Next track up
MODE (19)	S, T, U, 7
TUNE/TRACK <<- (22)	V, W, X, 8
TUNE/TRACK +>> (6)	Y, Z, 9
AUDIO (4)	Move between characters
DSP (12)	0, _, -, +
AUDIO (4) left, right	Scroll through all available letters and numbers

When producing your MP3 CDs please ensure that the tracks are listed either individually or in folders. Never mix tracks and folders as this can lead to problems during playback and especially when searching. All standard MP3 codings can be played by the unit.

Radio functions

SELECT BAND

Press the BAND button (8) to switch between FM (F1, F2, F3), medium wave (MW) and long wave (LW). You can store up to 6 stations in each band.

TUNING IN STATIONS

Press the TUNE/TRACK<<- (22) or TUNE/TRACK+>> (6) tuning buttons. You can switch to the manual frequency selection mode by holding down one of these buttons.

STORING STATIONS

After the tuning function has located a station, keep one of the number buttons 1-6 (16) held down for a few seconds. A beep will sound to indicate that the station has been stored.

FINDING STORED STATIONS

By pressing a number button 1-6 (16) you can locate the stations you have stored.

STORING STATIONS AUTOMATICALLY (AMS)

By pressing the AMS button (18) all stations that can be picked up will be stored in order.

REGIONAL PROGRAMME MODE

Some stations broadcast regional programmes. So that only these alternative frequencies for the required regional programmes are selected, hold down the AF button (10) until you hear a signal tone and the AF display starts to flash on and off. Now briefly press the Taste AF (10) to select either REG ON or REG OFF. After a short time the display will change pack and REG will be shown on the display.

PTY (Program Type Code)

To activate the menu, press the PTY button (9).

You can now search for or select your preset stations by the following categories:

" PTY MUSIC " PTY SPEECH " PTY OFF

	Type of music	Type of speech programmes
1	POP M	NEWS, AFFAIRS (current affairs), INFO (information)
2	EASY M, LIGHT M	SPORT, EDUCATE, DRAMA
3	CLASSICS, OTHER M (other music)	CULTURE, SCIENCE, VARIED
4	JAZZ, COUNTRY	WEATHER , FINANCE , CHILDREN
5	NATION M, OLDIES	SOCIAL, RELIGION
6	FOLK M	TRAVEL , LEISURE, DOCUMENT (documentary)

Please note that this information will depend on the region, the broadcaster and the station.

Radio (cont.)

TA ("TRAFFIC ANNOUNCEMENT")

Hold down the TA button (2) to switch this mode on or off.

When the TA function is active during CDs or MP3 playback, the unit will automatically switch back to the radio mode. This can be interrupted by pressing the TA button again without switching off the TA function.

RDS (RADIO DATA SYSTEM)

RDS is not a very popular feature in Australia. However, there are some Australian radio stations that transmit RDS signals that could be received by your new Car CD Radio. Please refer to the list below showing stations transmitting RDS signals. For further information on RDS in Australia please refer to the following website: **http://sutcliffetech.com.au/rdsinfo.html**

RDS is a service provided by radio stations. In addition to traditional music and voice services they also broadcast additional information in the form of encrypted digital signals and these are analysed and displayed by the car radio.

Press the AF button (10) to switch the RDS mode on or off. On the display (5) you can now see the programme name and other information (traffic information, the title of the track currently being played, etc.).

The following different kinds of RDS services may be available:

• PI (Programme Identification Code):

The PI code is used by the radio to identify the station being received.

• PS (Programme Service Name):

This service allows the station's name to be displayed.

• AF (Alternative Frequencies):

The car radio automatically searches for an alternative frequency for the current station with the strongest signal.

• TP/TA (Traffic Programme / Traffic Announcement):

Traffic information

• EON (Enhanced Other Network Information)

If there is a traffic announcement, then this enables the radio to switch to the radio station broadcasting it even if you are currently listening to another station.

PTY (Programme Type Code)

This code enables you to search for your selected type of programme, for example a sport broadcast (see the table on page 9).

Please note that the information displayed will depend on the region, the broadcaster and the station.

Radio (cont.)

Location	Station	Frequency (MHz)	PSN	PTY	Notes
Brisbane	Triple J	107.7	TRIPLE J	Rock Music	
	River FM	94.9	RIVER949	?	*RDS online in the near future
Darwin	Triple J	103.3			
Deniliquin		102.5	2MOR-FM		*unconfirmed
Geraldton	Triple J	98.9			
Launceston	Triple J	102.1			
Melbourne	Fox FM	101.9	FOX FM	Pop Music	RT: Today's best Music 101.9 FOX FM***
Moree	NOW FM	98.3	NOW FM		
Sydney	2MMM	104.9	TRIPLE M	Rock Music	CT, PI:1234 RT: Triple M Sydney's best Rock yippee!
	2DAY	104.1	2DAY FM	Pop Music	CT, PI:4321 RT: Today's best Music/Artist & song playing
Perth	NOVA	93.7	NOVA 937		CT
Toowoomba	Triple J	104.1	Triple J	Rock Music	RT: TRIPLE J - use daily but if pain persists consult your Doctor

CD player

INSERTING AND REMOVING CDS

• To insert a CD place it in the slot (24). The CD will now be played. The display (5) will show [S-CDP].

• To take out the CD, open (1) the control panel, which will now pop open. Now press the EJECT button (25). The CD will be ejected. The car radio will change back to RADIO mode.

SKIPPING TRACKS

• By pressing the TUNE/TRACK+>> (6) or TUNE/TRACK<<- (22) buttons, you can select the previous or next track on the CD. The track number is shown on the display (5).

PAUSING CD PLAYBACK

• You can pause the CD by pressing the PAU button (13). Pressing the button again will restart playback.

FAST FORWARD/REWIND

• By holding down the TUNE/TRACK+>> (6) or TUNE/TRACK<<- (22) buttons for a little longer, you can "spool" forwards or backwards through the track being played.

SCANNING ALL TRACKS

• Press the SCN button (14). The first 10 seconds (approx.) of every track will be played in order. Further pressing of the button will change the playback mode back to normal.

REPEATING A TRACK

• Press the RPT button (15). The current track will be repeated. Further pressing of the button will change the playback mode back to normal.

RANDOM PLAY OF ALL TRACKS

• Press the SHF button (17). The player will "shuffle" through the tracks, playing them in random order. Pressing the button again will change the playback mode back to normal.